Wark	Order	ID	58115
VVUIN	Oluci	w	20112

April 26, 2010 8:29:34 AM



Page 1

Item ID:

D205-634-041

Accept

Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

26/04/2010

Start Otv: 1.00

Req'd Qty: 1.00 Required Date: 30/04/2010

QC:



Cust Item ID:

Customer:

Draw

Number

Reference:

Approvals:

Process Plan:

Date:

Tooling: SPC (Y/N):

Date:

Date:

Run

Start

Stop

Stop

Sequence ID/ Work Center ID Operation

Description

Set Up/ Run Hours

Draw Rev.

Plan Code

Accept Oty

Reject **Qty**

Reject Number

BG 10/05/12

Insp. Stamp

Draw Nbr

Revision Nbr

D2580 Rev D

Document Control

DOCUMENT CONTROL

Memo

0.00

0.00

Photocopy D205-634 bluefile & type labels per PPP D205-634-041

110

CNC Bend 1

CNC Delta 100 Bender

BENDING MACHINE - SKIDTUBES

Memo

0.00

0.00

1-Bend as per program D2580.C on CNC Bender and Folio FT009

2-Cut tubes as per Dwg, D2580

58 115

Dart Ae	rospace	e Ltd						7-4-4		
W/O:				WO	RK ORDER C	HANGES	,	100	1	x
DATE	STEP		PR	PROCEDURE CHANGE			Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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Part No):		PAR #:	Fault Categ	jory:	NO	CR: Yes N	No DQA:	Date:	
•	⊸ R	esolution): 	_				
NCR:					R NON-CONF					
DATE	STEP	D	escription of NC Section A	Initial Chief Eng	Corrective Action Action Descr		Sign & Date	Verification Section C	Approval Chief Eng	Approva QC Inspecto
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Work Ord April 26, 2010			
Item ID:	D205-634-04	41	
Revision ID:			٠.
Item Name:	Replacement 8	Skidtube	
Start Date:	26/04/2010	Start Qty: 1.00	
Required Date:	30/04/2010	- •	
Reference:			
Approvals:	Process Pla	ın:	
	QC:		
Sequence ID/ Work Center II	D	Operation Description	
120 Skidtubes		Memo	
Skidtubes		1- Deburr	end
, 1		2- C'sink l	ا ما

	der ID 58115 8:29:34 AM			
	D205-634-041		Accept	
evision ID:		*		
em Name:	Replacement Skidtube			



Setup Start

Stop



Cust Item ID: Customer:

Approvals:	Proces
Appi ovais.	rioces

Date:

Tooling:

SPC (Y/N):

Date:

Draw

Number

Start Run

Stop

Set Up/ **Run Hours**

Draw Rev.

Date:

Plan Code

Accept **Qty**

Reject Qty

Reject Insp. Number Stamp

0.00

0.00

1- Deburr ends

2- C'sink holes as per dwg without cutting fluid

Date: _____

3- Prepare tube for welding, remove alodine as required.

4- Scribe batch number insied aft end of tube.

130

Memo

QC5- Inspect part completeness to step on W/O

Quality Control

Dart	Aeros	pace	Ltd
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W/O:			WORK ORDER CHANGES						•			
DATE	STEP	TEP PROCEDURE CHAN			NGE	Ву	Dat	e Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	:		PAR #:	Fault Cate	gory:	NCR: Ye	s No	DQA:	Date:			
	R	esolution:	Disposition:			QA: N/C Closed: Date:						
NCR:				WORK ORD	ER NON-CONFORM	ANCE (N	CR)					
DATE	STEP D		Description of NC Corrective Action Section			Ve	erification	Approval	Approval			
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Work Order ID 58115

April 26, 2010 8:29:34 AM

Required Date: 30/04/2010



Page 3

Item ID:

D205-634-041

Accept



Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

26/04/2010

Start Otv: 1.00

Reg'd Otv: 1.00



Cust Item ID:

Customer:

Reference:

A	pproval	6.

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Stop

Stop



Sequence ID/ **Work Center ID**

140



Skidtubes

Skidtubes

Operation Description

Set Up/ **Run Hours** Draw Number

Draw Rev.

Plan Accept Code Otv

Reject Otv

Reject Insp. Number Stamp

Memo

0.00

0.00

1-Weld step D2576 as per Dwg. D2580 and OSI 004 A/R□□□ Aluminum Rod MI 2860

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8" drill weld other side, pass 3/8" drill A/R \(\Boxed{\text{D}} \) Aluminum Rod \(\boxed{\text{M112000}} \)

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64". adjust stopper not to hit web.Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

BE 10/05/05

OSI

BE 10/05/05

- BE 10/05/05

Dart Aerospace Ltd W/O: **WORK ORDER CHANGES** Approval **Approval** DATE **STEP** PROCEDURE CHANGE Bv Date Qtv Chief Eng / Prod Mgr QC Inspector Part No: PAR #: _____ Fault Category: _____ NCR: Yes No DQA: ___ Date: ____ Resolution: Disposition: _____ QA: N/C Closed: _____ Date: ____ **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B Description of NC Verification **Approval** Approval DATE **STEP Action Description** Sign & Initial Section A Section C Chief Ena QC Inspector Chief Ena Chief Eng Date

Work Order ID 58115

April 26, 2010 8:29:34 AM



Page 4

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

26/04/2010

Start Otv: 1.00

Reg'd Qty: 1.00 **Required Date: 30/04/2010**



Cust Item ID:

Customer:

Reference:

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Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Sequence ID/ Work Center ID

150

Ouality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Set Up/

Run Hours

Draw Number

Draw Plan Rev. Code

Accept **Qty**

Reject Otv

Stop

Reject Insp. Number Stamp

Memo

OC: Date:

0.00

160

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

5 World

Swholo6

170 HandFinish Pressure Wash per OSI005 4.3

Memo

0.00

Memo

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd cap out of solution.

D Bl 10-5-6.

0.00

Dart A	leros	pace	Ltd
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W/O:			WORK ORDER CHANGES					1 4		
DATE	STEP		PR	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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N-4										
Part No	:		PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution	lution QA: N/C Clo				osed: Date:			
NCR:				WORK ORD	DER NON-CONFORM	ANCE (NCF	?)			
DATE	STEP	D	Jescription of NC			Section B Verifica			tion Approval	Approval
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Work Order ID 58115

April 26, 2010 8:29:34 AM



Page 5

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

26/04/2010

Start Qty: 1.00

Required Date: 30/04/2010 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

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Process Plan:

Date:

Date: Tooling:

0.00

SPC (Y/N):

Date:

Date:

Draw

Rev.

Plan

Code

Run Start



Stop

Reject

Oty

Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

180



Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

17114207

Memo

START TIME: OVEN TEMPERATURE:

FINISH TIME:

Set Up/ Run Hours

Number

=> N 10 (0 5/06

Draw

Accept

Qty

190



Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

\$ 10-5-7.

Dart Aerospace L	.ta
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W/O:	<u> </u>				ADDI ODDED OLIANA					
W/O:					VORK ORDER CHANG	GES				χ
DATE	STEP		PR	OCEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:		PAR #:	Fault Ca	tegory:	NCR: Yes	No D C	QA:	Date: _	
	R	esolution		Disposit	ion:	QA: N/C	Closed:		Date:	
NCR:				WORK OR	DER NON-CONFORM	ANCE (NC	R)		:	
		Г	escription of NC		Corrective Action Sec	ction B	Vorif	ication	Ammrovol	A
DATE	STEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Sec	tion C	Approval Chief Eng	Approval QC Inspector
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Work Order ID 58115

April 26, 2010 8:29:34 AM

Required Date: 30/04/2010



Page 6

Item ID:

D205-634-041

Accept

Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

26/04/2010

Start Otv: 1.00

Rea'd Otv: 1.00

Cust Item ID:

Customer:

Reference:

			_	
A	nni	rov	яl	. 2

Process Plan: Date:

Date: SPC (Y/N):

Tooling:

Draw

Number

Date:

Draw

Rev.

Plan

Code

Date:

Run

Accept

Otv

Start

Stop



Stop

Reject

Qty



Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

200



Hand Finishing

Description

Operation

Memo

0.00

0.00

Set Up/

Run Hours

1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates

A/R □□□ Sikaflex-291

Sikaflex expire date:

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580

3-Inspect for foreign object per OSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with

Sikaflex. Clean excess adhesive A/R 🗆 🗆 Sikaflex-291

Sikaflex expire date:

5-Wing Walk as per Dwg D2580 and QSI 005 4.4 Batch: //4/22

M 10-57.

Dart Aerospace Ltd W/O: **WORK ORDER CHANGES Approval Approval STEP** DATE PROCEDURE CHANGE Chief Eng / Prod Mgr By Date Qty QC Inspector Part No: ______ PAR #: ____ Fault Category: _____ NCR: Yes No DQA: ___ Date: ___ ______ Disposition: _____ QA: N/C Closed: ____ Date: ____ Resolution **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B **Description of NC** Verification **Approval** Approval **DATE STEP** Sign & Initial **Action Description** Section A Section C QC Inspector Chief Eng Chief Eng Date Chief Eng

Work Order ID 58115

April 26, 2010 8:29:34 AM



Page 7

Item ID:

D205-634-041

Accept



Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

26/04/2010 **Required Date: 30/04/2010**

Start Qty: 1.00 Rea'd Oty: 1.00

Cust Item ID:

Customer:

Draw

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Number

Reference:

Approvals:

Process Plan:

Date:

_____ Date: SPC (Y/N):

0.00

0.00

Tooling:

Set Up/

Run Hours

Date:

Date:

Draw

Rev.

Plan

Code

Run

Accept

Otv

Reject

Otv

Start

Stop

Reject

Stop



Number Stamp

Insp.

Sequence ID/

Work Center ID

210

Quality Control

Memo

Operation

Description

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

Foreign objects per OSI 024

QC5- Inspect part completeness to step on W/O

220

Packaging

Packaging

Packaging

Memo

0.00

0.00

Identify and pack for shipping as per PPPD205-634-041

Location:

PPP Rev:

230

QC21- Final Inspection - Work Order Release

0.00

Quality Control

Memo

0.00

10/05/11/A) PS/0-5-13

Dart Ae	rospace Ltd	1							•	•
W/O:			WO	RK ORDER CHAN	GES					3 *
DATE	STEP	PR	OCEDURE CHAN	IGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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Part No):	PAR #:	Fault Categ	ory:	NCR	: Yes	No DQA :		Date: _	
	Resol	ution:	Disposition	•	QA:	N/C CI	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORM	IANCE	(NCR	()			
DATE	OTED.	Description of NC		Corrective Action Se	ction B		Verifica	tion	Approval	Approva
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section		Chief Eng	QC Inspecto
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Picklist Print		*				
April 26, 2010 8:29:40 AM	••		,			Pa
Work Order ID: 58115	- 1	HAIN ANN CONTRACTOR			-	<u> </u>
Parent Item: D205-634-041			 			
Parent Item Name: Replacement Ski	dtube .	######################################	E	Start Date:	26/04/2010	Required Date: 30/04/20
IPP Rev P 10.0 IPP Rev. O 06.	08.28□FP was QC5 in Step 02.19 per PAR09-043 E 02.28 Added paperwork 07-09 SS Wearplates &	c EC		Start Qty:		Required Qty: 1.00
D2580-1 205 Skidtube bent detail	Manufactured No.	0	110 Each	6.0000 1.0000		
200 SAINTENES CONTRACTOR		Warehouse	Loc Qty	Loc Code		
		Location		\sim	•	
*		Main Warehouse	7	1 10-	5-4	
	•	4090 ₇₀₂₈	\nearrow . $\frac{6}{1}$			_
***	B. 2	57188] **			_
	100	57347	2			
D2576-3	Manufactured No	57902	2 140 Each	118.0000 1.0000		_
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Step (maching detail)	A STATE OF THE STA			1 (48) (63)		
		Warehouse	Loc Qty	Loc Code		
!! !!		<u>Location</u>				
		Main Warehouse LG	118			
		46661	70		7	BE 10/05/05
Dosas		52215	48			- 06/0/09/0.5
	Manufactured No)	140 Each	353.0000 20.0000		
Crossbolt Spacer						
		Warehouse	Loc Oty	Loc Code		
I		Location	Loc Oty	200,0000		
		Main Warehouse				
		LG	353	•		-
		57052	53		<u>// A</u>	/ ./ .
	1	57348	300		<u> </u>	DE 10/05/05

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Dart Ae	rospace Lt	d					•	•
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspect
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April 26, 2010 8:29:40 AM

Work Order ID: 58115

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P SS Wearplates & Gaskets 07-07-09

JLM

Start Date: 26/04/2010

Required Date: 30/04/2010

Start Qty: 1.00

Required Oty: 1.00

D2855

Manufactured

No

200

Each

117.0000 1.0000



Cap

Warehouse Location	Loc Qty	Loc Code
Main Warehouse FP6 56613	2 . 2 -	·
- Main Warehouse ST026	116	
	115	
50513	1	
50770	30	
51539	30	
53791	54	

AN3-5A

Bolt



Purchased

No

Each

1,013.000 2.0000



Warehouse Loc Qty Loc Code Location Main Warehouse ST350 1013

200

105057

1013

2 bl 10-5-7.

Bl 10-5-7

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Dart Ae	rospac	e Ltd			·					•
W/O:				W	ORK ORDER CHANG	ES				, , ,
DATE	STEP		PRO	OCEDURE CHA	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspect
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Part No):		PAR #:	Fault Cate	egory:	NCR: Yes	No DQ	A:	Date:	<i>,</i>
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NCR:	_		1	WORK ORD	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP		Description of NC		Corrective Action Section		Verific	cation	Approval	Approva
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Picklist Print

April 26, 2010 8:29:40 AM

Page 3

Work Order ID: 58115

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was OC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P 07-07-09

SS Wearplates & Gaskets

Start Date: 26/04/2010

Required Date: 30/04/2010

3

Start Otv: 1.00 Required Oty: 1.00

AN960ID10L

Purchased

No

200

Each

4,415,000 2,0000

Washer

Warehouse

Loc Otv

Loc Code

Location

Main Warehouse

ST348

4415

4415

2 bl 10-5-7.

50. BR 10-5-7.

ALS7-1032-130

Purchased

11.110985

Each

138.0000 50.0000

Insert

ALS4-1032-130.

Warehouse

Loc Oty

Loc Code

Location

Main Warehouse ST282

113238

114407

200

138

AN3C4A

Purchased

No

200

138 Each

1.649.000 50.0000

BOLT

Warehouse	Loc Qty
Location	
Main Warehouse	
ST350	1649
114103	501
114108	300
114330	348
114416	500

Loc Code

50. Joh 10-5-7.

Dart Ae	rospace Ltd	i İ					,	•
W/O:			WO	RK ORDER CHANGES	}			, ,
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspect
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Part No):	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA:	Date: _	
	Resolu	ution:	Disposition	n:	QA: N/C CK	osed:	Date: _	
NCR:			WORK ORDE	R NON-CONFORMAN	CE (NCR	')		
DATE	STEP	Description of NC		Corrective Action Section I		Verification	Approval	Approva
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspect

April 26, 2010 8:29:40 AM

Work Order ID: 58115

D205-634-041



Parent Item Name:

Replacement Skidtube

Comments:

Parent Item:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P 07-07-09

SS Wearplates & Gaskets

Start Date: 26/04/2010

Start Qty: 1.00

Required Date: 30/04/2010

Required Oty: 1.00

AN960C10L

washer D3566-13



Purchased

200

Each

Loc Qty

0.0000

50.0000

50 BR 16-5-7.

Manufactured

Manufactured

No

Each

48

48

20

Each

114341

48.0000 1.0000

Gasket

Warehouse L'ocation |

Main Warehouse

NAS 1149C03322

FP

57682

200

36.0000

Loc Code

1.0000

BR 10-5-7.

Gasket

D3566-5

Warehouse Loc Qty Loc Code Location Main Warehouse FP015 36 56829 57526 12

JBR 10-5-7.

Dart Aerospace Ltd

W/O:				W	ORK ORDER CHANC	GES				· · · · · · · · · · · · · · · · · · ·	, 4
DATE	STEP		PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	:		PAR #:	Fault Cate	egory:	NCR:	Yes N	lo DQ	A:	_ Date: _	
Resolution			Disposition:				QA: N/C Closed: Date:				
NCR:				WORK ORD	ER NON-CONFORM	ANCE	(NCR)				
DATE	STEP	Ц	escription of NC	Corrective Action Section			Veriti			Approval	Approval
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April 26, 2010 8:29:40 AM

Work Order ID: 58115

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P 07-07-09

SS Wearplates & Gaskets

Start Date: 26/04/2010

Start Qty: 1.00

Required Date: 30/04/2010

Required Qty: 1.00

D3566-1

Manufactured

No

200

Each

49.0000 2.0000

Gasket

Warehouse	<u>Lo</u>	oc Qty	Loc Code	
Location				
Main Warehouse				
FP015		49		
57257 577151		13		
57715 /-		36		
	200	Each	9.0000	1.0000

D3564-11

Manufactured

2 BLB-5-7

Wearshoe

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
FP19 57957	9	

Manufactured No

Each

29.0000 1.0000 BK 10-5-7

Wearshoe

D3564-13

Warehouse Loc Qty Loc Code

200

Location

FP17

Main Warehouse

56533

57684

17 12

29

1 Bl 10-5-7.

Dart Ae	rospace	Ltd						,	
W/O:				WC	RK ORDER CHANGES	3			
DATE STEP			PR	OCEDURE CHAI	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspect
Part No					gory:				
	Re	esolution]:	Disposition	1:	QA: N/C CI	osed:	Date: _	
NCR:	İ			WORK ORDE	R NON-CONFORMAN	CE (NCR)		
D. 4.7.5			Pescription of NC	Corrective Action		3	Verification		
DATE	STEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approva QC Inspect

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April 26, 2010 8:29:40 AM

Work Order ID: 58115

Parent Item:

D205-634-041

Parent Item Name:

Comments:

Replacement Skidtube

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09 SS Wearplates & Gaskets JLM

Start Date: 26/04/2010

Required Date: 30/04/2010

Required Qty: 1.00

= bl 10-5-7.

Start Qty: 1.00

D3564-9

Manufactured

Manufactured

No

No

200

Each

20.0000 1.0000



Wearshoe

<u>Warehouse</u>	<u>Lo</u>	oc Oty	Loc Code	
Location				
Main Warehouse				
FP		1		
55334		1		
Main Warehouse				
FP019		19		
57260 · 57685 /		8		
57685 🗸		11		
	200	Each	16.0000	1.0000

D3564-5

Wearshoe

Warehouse Location	Loc Oty	Loc Code	
OFFSHORE FG 57 7 <i>3</i> 9			1 BR 10-5-7.
34806	2 2		
Main Warehouse			
FP	2		
55333	2		
Main Warehouse			
FP19	12		
57525	12		

Dart Aerospace Ltd W/O: **WORK ORDER CHANGES Approval** Approval DATE STEP **PROCEDURE CHANGE** By Qty Chief Eng / Date QC Inspector Prod Mar PAR #: ____ Fault Category: _____ NCR: Yes No DQA: ___ Date; ____ Part No: _____ Disposition: _____ QA: N/C Closed: ____ Date: ____ Resolution: WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B Description of NC Verification **Approval** Approval DATE **STEP** Sign & Initial **Action Description** Section A Section C Chief Eng QC Inspector Chief Eng Chief Eng Date

Picklist Print

April 26, 2010 8:29:40 AM

Page 7

Work Order ID: 58115

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev:P 07-07-09

IPP Rev. O 06.02.28 Added paperwork

SS Wearplates & Gaskets

Start Date: 26/04/2010

Required Date: 30/04/2010

Start Qty: 1.00

Required Qty: 1.00

16. BR 10-5-7.

D2594-3

Manufactured

Manufactured

No

No

200

200

Each

171.0000 16.0000

O-Ring, 205 Skidtube

Warehouse

Loc Oty

Loc Code

Location

Main Warehouse

55546

171

171

Each

600.0000 16.0000

D2594-1

Plug, 205 Skidtube

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse FP

42807 55002 57826

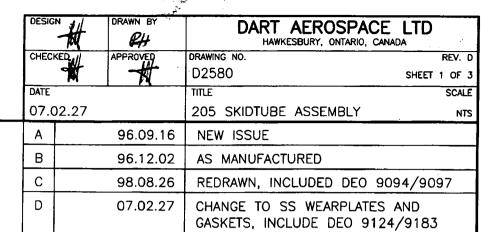
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16. bR 10-5-7.

Dart Ae	rospace Ltd						•	•
W/O:			WO	RK ORDER CHANG	ES			. 0
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
Part No):	PAR #:	Fault Cate	Jory:	_ NCR: Yes	No DQA:	Date: _	
	Resolu	ution	Disposition	1:	_ QA: N/C CI	osed:	Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	ANCE (NCR	3)		
DATE	STEP	Description of NC		Corrective Action Secti	orrective Action Section B		Approval	Approva
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	QC Inspecto







QTY	QTY	Part Number	Description	
-041	-045			
<u> </u>		D2580-041	SKIDTUBE ASSEMBLY	
	X	D2580-045	SKIDTUBE ASSEMBLY	
1	1	D2500-1-190	EXTRUSION	
1	1	D2576-3	STEP	24OP COPY
20	24	D2579	CROSS BOLT SPACER	•
16	16	D2594-1	PLUG	RETURN TO
16	16	D2594-3	O-RING	ENGINEERIN
1	1	D2596	205 WEB	UNCON TROLLES
1	1	D2855	AFT CAP	SUBJECT TO AMEN
1	1	D3564-5	WEARSHOE	WITHOUT NOT
1	1	D3564-9	WEARSHOE	WORK ORE
1	1	D3564-11	WEARSHOE	
1	1	D3564-13	WEARSHOE	NO 3811
2	2	D3566-1	GASKET	
1	1	D3566-5	GASKET	01110
1	1	D3566-13	GASKET	
50	50	ALS7-1032-130 or AKS7-1032-130 or AKS4-1032-130 or AELS-1032-130	INSERT	
50	50	AN3C4A	BOLT	
2	2	AN3-5A	BOLT	
50	50	AN960C10L	WASHER	
2	2	AN960JD10L	WASHER	

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

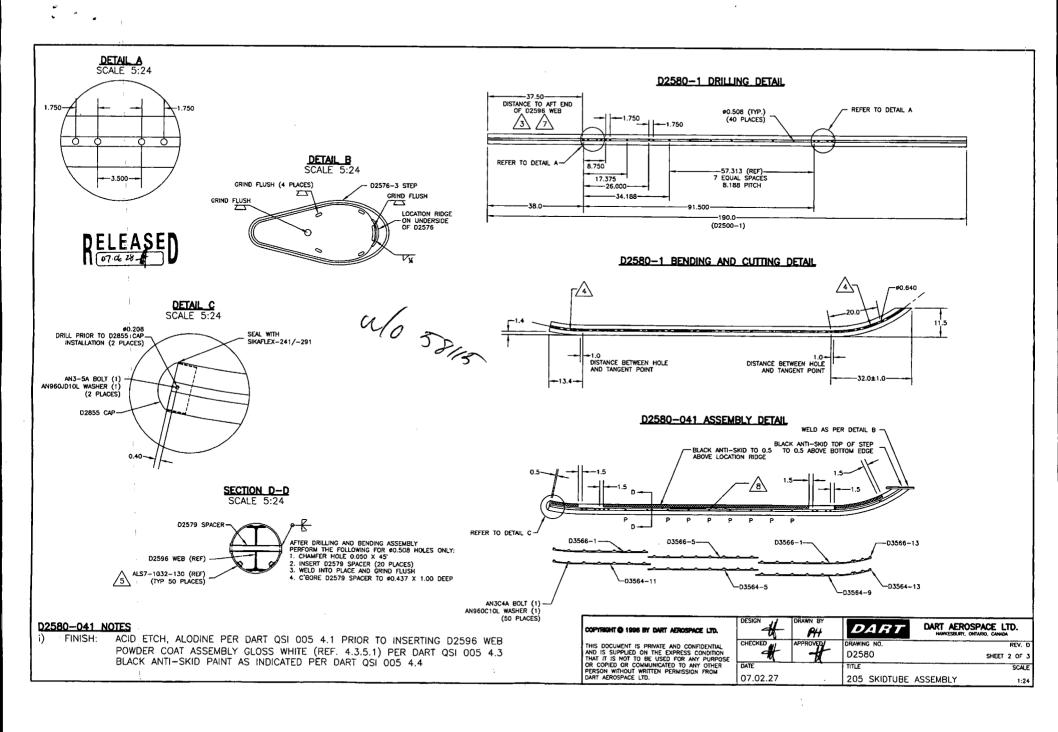
SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG CW D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

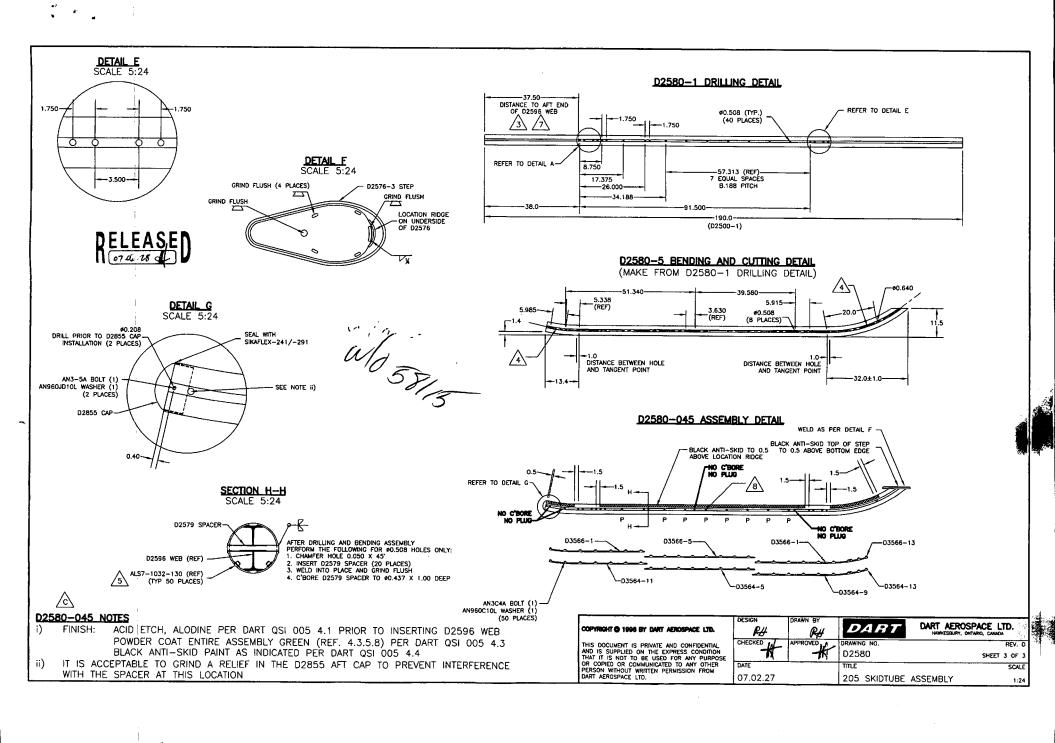
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W/O:				V	VORK ORDER CHAN	GES			······································	
DATE	STEP		PR	OCEDURE CI	HANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•		PAR #:	Fault Ca	itegory:	NCR: Yes	No DQ	A :	Date:	
Resolution:			ກ:	Disposit	tion:	QA: N/C CI	osed:		Date: _	
NCR:				WORK OR	DER NON-CONFORM	IANCE (NCF	₹)			***************************************
DATE	STEP		Description of NC Section A	Initial	Corrective Action Se Action Description	ction B	Verific Section		Approval Chief Eng	Approval QC Inspector
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W/O:			WO	RK ORDER CHANG	ES			, ,				
DATE	STEP	PR	OCEDURE CHAN	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto				
Part No):	PAR #:	Fault Categ	jory:	_ NCR: Yes	No DQA:	Date: _					
	Resolution	or:	Disposition	:	_ QA: N/C CI	osed:	Date: _					
NCR:			WORK ORDER NON-CONFORMANCE (NCR)									
DATE	STEP	Description of NC		Corrective Action Section		- Verification	Approval	Approva				
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Dart Aerospace Ltd	
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W/O:				V	ORK ORDER	CHANGES			3		
DATE STEP			PROCEDURE CHANGE					Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:			PAR #:	Fault Ca	CR: Yes No DQA: Date:				•		
				Disposition: Q							
NCR:				WORK OR	DER NON-CON	FORMANC	E (NCF	R)			
DATE	STEP		Description of NC Section A	Corrective Action Section B			Verific		ation	Approval	Approval
				Initial Chief Eng	Action Des Chief E	cription ng	Sign 8 Date	Section		Chief Eng	QC Inspector
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NO. 350

AWS D17.1.2001 QUALIFICATION TEST RECORD

	2 : 5	
Name:	Barday Elliatt	
Job num	ber: <u>57683</u>	
Part nun	nber: 5205 - 634.041	
Descripti	ion: 205 skid tube	
Welding	Process: Tig[] Mig[]	
Base mat	teriel: Aluminium	
Current:	AC[of DC[]	

TEST REQUIREMENTS AND RESULTS

Visual:	pass[[]	
Penetration:	pass[]	fail[]
UNACCEPTABLE		
Cracks:	pass[]	fail[]
Undercut:	pass[]	
Pin holes:	pass[/]	
Overlap (cold lap)	pass[~]	fail[]
Porosity (surface):	_ pass[سُـارِ	
Coloration:	pass[]	fail[]
Qualifier Lat Var	_Date of Te	st Coupon io. (N.2)
Welder Phrolin Editor	_Date of Te	st Coupon 10-614-27
The above named individual is qualifi-	ed in accord	ance with AWS D17.1.2001 to weld